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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,761	09/22/2003	Joseph Reid Henrichs	020402CON	1368
•	590 06/02/2004		EXAMI	NER
KIRKPATRICK & LOCKHART LLP 535 SMITHFIELD STREET)	VY, HUNG T	
PITTSBURGH, PA 15222			ART UNIT	PAPER NUMBER
			2828	,

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application N .	Applicant(s)				
, wi	10/667,761	HENRICHS, JOSEPH REID				
Offic Action Summary	Examin r	Art Unit				
	Hung T Vy	2828				
Th MAILING DATE f this communication app Period for Reply	ears n the c ver sheet v	with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a within the statutory minimum of the fill apply and will expire SIX (6) MC.	a reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication.				
Status						
1) Responsive to communication(s) filed on 22 Se	eptember 2003.	*.				
	action is non-final.					
3)☐ Since this application is in condition for allowan		tters, prosecution as to the merits is				
closed in accordance with the practice under E.	x parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.				
Disposition of Claims						
 4) ☐ Claim(s) 2-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 						
5)☐ Claim(s) is/are withdraw	in from consideration.					
6)⊠ Claim(s) <u>2-18</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement	***				
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
The same decidation is objected to by the Exa	iminer. Note the attache	d Oπice Action or form PTO-152.				
Priority under 35 U.S.C. § 119	•					
12) Acknowledgment is made of a claim for foreign p a) All b) Some * c) None of:	priority under 35 U.S.C. §	§ 119(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents		Application No				
Copies of the certified copies of the priorit	y documents have been					
application from the International Bureau						
* See the attached detailed Office action for a list of the certified copies not received.						
		· .				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (PTO-413) Paper No(s)/Mail Date.					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>04/13/2004</u> .		nformal Patent Application (PTO-152)				

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DETAILED ACTION

Acknowledges

Receipt is acknowledged of the following items from the Applicant.
 Information Disclosure Statement (IDS) filed on 04/13/2004. The references cited on the PTOL 1449 form have been considered.

Drawings

The drawings are objected to for the following reasons.

The drawings are objected to under 37 CFR 1.83(a) because they fail to show first mirror as described in the specification. In the figure 9 shows the first mirror is 23 as flat reflector or quarter mirror stack but in claim 10 recites the first reflector assembly includes a polyhedral prim waveguide. This is the second reflector in the specification. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d).

Specification

3. The specification has been checked to the extent necessary to determine the presence of possible minor errors. However, the applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

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Double Pat nting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 2-18 are rejected under the judicially created doctrine of obviousnesstype double patenting as being unpatentable over claims 1,4, 33, 42, 48and 56 of U.S. Patent No. 6,625,195. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims in present applicant are similar to claims in U.S. Patent as shown.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 2-9 and 18 are rejected under 35 U. S. C. § 102 (b) as being anticipated by Damen, U.S. patent No. 5,513,203.

Regarding claims 2-9, Damen discloses a semiconductor laser cavity, comprising: first (312) and second reflector (312) assemblies (See fig. 4); the non-linear semiconductor material (see column 4, line 17-25) includes at least three semiconductor active gain regions (See column 4, line 23-25).

With respect to claim 18, the methods of intracavity four-wave mixing of photonic radiation, since Damen et al. disclose the product, it is inherent a product by process for performing the method is recited in the claims.

Citation of Pertinent References

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The patent to Valley et al. disclose Transient energy Self-pumped conjugator and Method, U.S. Patent No. 5,023,477.

The patent to Pankove discloses Surface Emitting Semiconductor Laser, U.S. Patent No. 5,263,041.

The patent to Boucar et al. disclose Vertical Cavity Apparatus With Tunnel Juntion, U.S. Patent No. 6,493,371.

The patent to Thornton discloses Multiwavelength Laterally-Injecting-Type Lasers, U.S. Patent No. 5,319,655.

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Conclusion

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6. When responding to the office action, Applicants are advised to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist the examiner to locate the appropriate paragraphs.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung Vy whose telephone number is (571) 272-1954. The examiner can normally be reached on Monday-Friday 8:30 am - 5:30pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Hung T. Vy Art Unit 2828 May 20, 2004

> Supervisory Patent Examiner Technology Center 2800